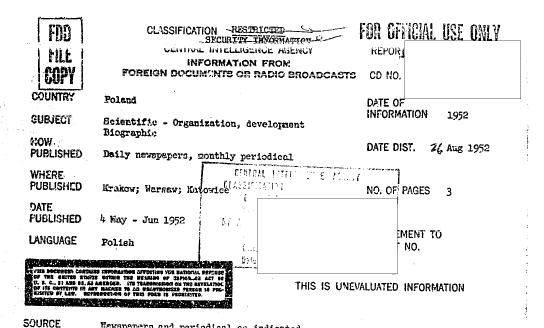
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## POLISH ACADEMY OF SCIENCES TAKES OVER INSTITUTES

Howspapers and periodical as indicated.

ACADRAT ABSCRES 4 INSTITUTES -- Warsew, Express Wieczorny, 26 May 52

The first meeting of the Presidium of the PAN (Polska Akademia Nauk, Polish Academy of Sciences) was held at Stazzic Palace. The Presidium approved the organizational regulations and decided on the membership of the committees.

The Presidium passed a resolution to take over the following institutes as PAB scientific research centers: Instytut Biologii Doswiedczalnej in. Menckiego (Moncki Institute of Experimental Biology) at Lodz, Instytut Materatyczny (Institute of Mathematics), Instytut Badan Literackich (Institute of Literary Research), and Maklad Dendrologii i Pomologii (Research Center of Dendrology and Posclogy).

The Presidium designated 5 July 1952 as the date for the next PAN General Assembly.

KRAKOW NEWBERS OF ACADEMY DESCRIBE THEIR WORK -- Krakow, Dziennik Polski, 4 Hay 52

Recently interviewed Krakov members of the Polish Academy of Sciences gave the following information about their work:

The scientific research of Teodor Marchlewski, rector of Jagiellonian University, is closely related to the nationwide Instytut Zootechniki (Institutes of Zootechnology), where he acts as administrative director and also does scientific research in animal breeding. The purpose is to apply Micharin's principles in Polish livestock production. It is important to disseminate the results reached by the entire Institute of Zootechnology, which employs 196 scientific researchers in its laboratories and farm research centers. A separate office handles this problem; this office is also responsible for cooperation with the FGR (Fanstwove Gospodarstwa Rolne, State Ferms) and producers' cooperatives.

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Marchlewski is also preparing a book on the application of Michurin's biology to breeding. The book will be based on research done by the Soviet scientists and on published and unpublished results of the Institute of Zootechnology.

Marchlewski is giving a course in Michurin's biology at the Zcotechniczny Zaklad Doswiedczalny Polanka-Haller (Polanka-Haller Zootechnical Experimental Center).

Prof Walery Goetel of the Akademia Gornictwai Metalurgii (Academy of Mining and Metallurgy), a geologist, believes in the application of this science to practical problems. The geological sciences constitute a basis for economic planning, especially in the present development of heavy industry.

Stanislaw Skowron, professor of the Akademia Medyczna (Academy of Medicine), states that biclogy contributes to other sciences, such as agrobic bgy, zootechnology, medicine, and veterinary medicine. Scientific research is done in groups on projects which meet the present needs of agriculture and medicine. All researchers work together through the Zaklad Biologii (Biological Research Center). After years of research on the effects of secretions of certain glands in the development and functions of an organism it was discovered that a certain chemical compound produced a vigorous reaction in sex glands.

At present Skowron, together with Professor Z. Keminski and Dr Ewyn, are working jointly on experiments to increase fertility in animals and it is expected that soon the results will be applied in zootechnology. Research is also being done on plants to increase the content of medicinal chemicals. Work is being done on the regeneration of destroyed parts of organisms. The research of Lepeshinskiy, the well-known Soviet scientist, has opened new horizons. Now methods developed by the Poles, which permit observation of the regenerative process under the microscope, have uncovered new facts of great importance to medicine.

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Frof Witold Biernawski of the Academy of Mining and Metallurgy, specializes in the machining of metals, especially the problems of high-speed cutting and grinding to maximum smoothness.

Professor T. Lehr-Splawinski of Jagiellouian University works in the field of linguistics.

Prof Wladyslaw Szafer of Jaglellonian University works at three scientific research institutes: Instytut Botaniczny (Botanical Institute) of Jagiellonian University, which in the very near future will be changed to the Instytut Botaniczny Polskiej Akademii Nauk (Botanical Institute of the Polish Academy of Sciences); Ogrod Botaniczny (Botanical Gardens); and Instytut Ochrony Przyrody (Institute for the Preservation of Nature and Wildlife). The Botanical Institute, founded in 1912 by Prof M. Raciborski, is about to publish Volume 8, Flora Polska (The Flora of Poland) and has published works concerning the changes of climate and plants of the glacial period in Polend. They are also investigating a method of analysing the dust of Poland's peat bogs and lake sediments for traces of old cultures. The institute has been doing research in plant sociology for almost 30 years, starting with the Tartry Mountain area. The study of plant affinities constitutes the basis for a rational management of forestry, meadows, peat bogs, etc. Kumerous practical applications as a result of this research can be applied to use in the national economy.

Although the Botanical Gardens are a popular attraction, they contain plant collections unknown to the public. Research is being done on the acclimatization of plants, on competition between plants, on interaction between plants, and in dissemination.

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The preservation of nature and wildlife of Foland is directed from Krakov. For many years Krakov was the headquarters of the Panstwove Rady Ochrony (National Council of Preservation of Nature and Wildlife), and the Institute for the Preservation of Nature and Wildlife is located at Krakov. The institute aims at the preservation of medicinal plants, management of forest preserves, and protestion of birds.

Prof Julian Toksrski of Jagiellonian University conducts research in agriculture. Soil studies by Vil'yans, the Soviet scientist, have provided the foundation of work in Poland on the chemical composition of soils to determine their suitability for specific agricultural uses. Whereas precise chemical and 'yais is very time-consuming, Tokarski has developed a practical method of quantitative analysis. Samples of the soil are heated in special electric furnaces at progressively higher temperatures, ranging from 150 degrees to 900 degrees centigrade. As higher temperatures are applied, the mixture of mould, loum, limestone, and sand loses its water content or various chemical substances are burned out. By weighing samples after successive treatments, it is possible to make a quantitative analysis of various components. The Zaklad Gleboznawstwa (Soil Analysis Research Center) under Tokarski in the Faculty of Agriculture of Jagiellonian University has prepared a soil map of the Krakow region for the Krakow MRN (Miejska Rada Harodova, Municipal National Council). The Soil Analysis Research Center can prepare such maps for all Poland.

Another deciding factor in agriculture is drainage. Professor Tokarski has devised a colorastric hydrometer consisting of long narrow glass and metal tubes, which are placed into the ground. These contain silica gel saturated with chloride of cobalt which takes on a pink hue in the presence of moisture. This device allows for the observation of water movement to a depth of 50 centimeters at tils time.

WORK ON EXPERIMENTAL CENTER -- Katowice, Przeglad Gorniczy, Vol VIII, Jun 52

On 2 May 1952, a periodic meeting of the Komitet Naukowy Zakleiu Podziemnej Gazyfikacji Wegla (Scientific Committee of the Research Center for Underground Gasification of Coal) of the GIG (Glowny Instytut Gornictwa, Main Institute of Mining) was held, with Deputy Minister Professor-Engineer Krupinski acting as chairman of the committee. A report was read by Engineer Krupinski acting as chief above research center, on the progress of construction on an experimental center. After hearing this report, the members accepted and confirmed further work on the experimental center.

The members of the committee then reviewed and established a program of future studies for the research center.

At the close of the meeting, the committee resolved to interest the Polish Academy of Sciences in the work of GIG on the problem of underground gasification of coal.

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